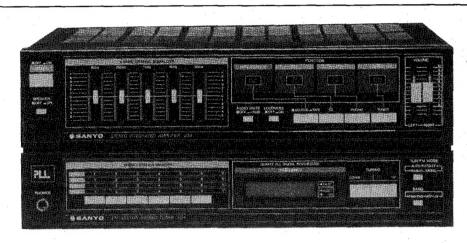
SERVICE MANUAL

RECEIVER



 $V 34_{\tiny BLACK}$

(EUROPE/WEST GERMANY/ITALY)



AK 32

SPECIFICATIONS

Note:

The below mentioned specifications are mainly based on the IHF measurements standard. They can therefore not directly be compared with specifications based on the DIN standard or other standards.

AMPLIFIER

Frequency response 20 Hz – 35 kHz (CD)

Loudness control response (Vol. -30dB). . . . +8 dB/+4dB (100 Hz/10 kHz)

TUNER

FM section

Usable sensitivity. 2.0 μ V (mono) Signal to noise ratio (1 mV ANT.) 65 dB (mono) Harmonic distortion (1 kHz) 0.5% (mono)

Stereo separation (1 kHz) 40 dB

AM (MW/LW) section

GENERAL

Power requirements AC: 220V, 50 Hz

Power consumption 190 W

Dimensions (W x D x H) Approx. 335 x 290 x 150 mm

 $(13-1/8" \times 11-3/8" \times 6")$

Specifications subject to change without notice.

GENERAL ADJUSTMENT CONDITION

Power source voltage is DC12V.
 Use a screw driver with plastic grip for all adjustment.

FM Band Ξ

Set BAND switch in the FM position

FM-SG: Standard modulation frequency, 1,000Hz; frequency deviation, ±75kHz dev.

Signal input must be kept as low as possible to avoid overload. Use an output meter of the highest possible sensiwity.

დ. 4.

• Turn SVR-302 to the position where the STEREO indicator lights up, and stop it there.
• Tune exactly at non-moduration, and adjust so that the counter value becomes 19.00 ± 0.05kHz. Adjust so that the leakage currents of the right and left channels are minimized in good balance. Match to the frequency of ceramic filter.
Adjust so that the symmetrical wave from becomes the maximum. Match to the frequency of ceramic filter.
Adjust so that the symmetrical wave from becomes the maximum. Tune exactly, and adjust so that the digital voltmeter indication becomes less than 2V. Confirm so that the digital voltmeter indication becomes approx. 1.5~1.6V. Adjust so that the output wave form becomes the maximum. Adjust so that the output wave form becomes the maximum. Tune exactly, and adjust so that the digital voltmeter indication becomes 0 ± 0.02V. Adjust so that the digital voltmeter indication becomes 8.0 ± 0.5V. ADJUSTING PROCEDURE ADJUST-ING POINT **SVR202 SVR302** SVR301 CT101 T202 1105 L102 L103 T202 T201 CONNECT. $^{\odot}$ $^{\pm}$ **(ii)** $^{\odot}$ (E) (m) $^{\odot}$ **(III)** ⊞ **(III)** \equiv Œ **(H) (H)** OUTPUT CONDITION Output plug Output plug Output plug **TP401** TP203 TP401 TP201 TP202 **TP301** TP5 TP3 TP1 TP1 TP1 TP1 TP1 TP1 MEASURING VTVM Oscilloscope Counter VTVM Oscilloscope VTVM Oscilloscope VTVM Oscilloscope FM sweep Generator FM sweep Generator Digital voltmeter Digital voltmeter Digital voltmeter Digital voltmeter Œ (iii) Œ (iii) CONNECT. FM antenna termínaí (75Ω) FM antenna terminal (15g) TP2 TP2 TP1 TP1 INPUT CONDITION 10.7MHz (nonmodulation) 10.7MHz (nonmodulation) (nonmodulation) FREQUENCY 106.0MHz (20dB) 98.0MHz 66dB 98.0MHz 66dB 90.0MHz (20dB) 98.0MHz 66dB 98.0MHz 23dB FM-SG STEREO MODULATOR MEASURING FM sweep Generator FM sweep Generator FM-SG FM-SG FM-SG FM-SG FM-SG FREQUENCY INDICATED POSITION Lower limit Lower limit 108.0MHz (High end) 87.5MHz (Low end) 106,0MHz 98,0MHz 90.0MHz **98.0MHz** 38.0MHz 98.0MHz V-curve S-curve HIGH HIGH ρ ADJUSTING CIRCUIT ρ S. D. (Station Detector) Separation (Stereo mode) VCO (19kHz) I. F. (distortion factor) Covering Tracking frequency щ.

Main signal — ±67.5 kHz dev. Pilot signal — ±6.75 kHz dev. STEREO MODULATOR: Frequency deviation

Since TP202 is not a ground voltage, it should not be short-circuited to the case of the meter.

Note:

2

MW Band

Set BAND switch in the MW position.

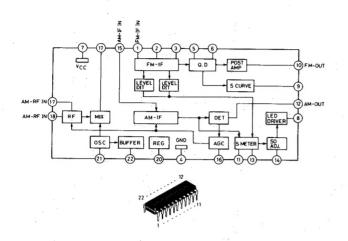
		7011101101		INPUT CONDITION		OUTPUT CONDITION	NDITION	in equency	OUTPUT CONDITION
ADJUSTING	TING	INDICATED	MEASURING	FREQUENCY	CONNECT. POINT	MEASURING	CONNECT. POINT	POINT	ADJUSTING PROCEDURE
u.		Lower limit	AM sweep Generator	459kHz nonmodulation	AM loop-ant. Terminal	AM sweep Generator	TP7 (H)	T251	Match to the frequency of ceramic filter. Adjust so that the symmetrical wave form form becomes the maximum.
Covering	ГОМ	522kHz (Low end)			l	Digital voltmeter	тР401 () ТР1 (E)	L153	 Adjust so that the digital voltmeter indication becomes 1.2 ± 0.03V.
frequency	нідн	1611kHz (High end)	1			Digital voltmeter	ТР401 (H) ТР1 (E)	CT153	 Adjust so that the digital voltmeter indication becomes 8 ± 0.05V.
Tracking	LOW	603kHz	AM-SG	603kHz 75dB	IRE loop antenna	VTVM Oscilloscope	Output plug	L151	 Adjust so that the output value becomes the maximum.
frequency	нВн	1404kHz	AM-SG	1404kHz 75dB	IRE loop antenna	VTVM Oscilloscope	Output plug	CT151	 Adjust so that the output value becomes the maximum.
S. D. (Station Detector)	ector)	999k Hz	AM-SG	1000k Hz 83dB	IRE loop antenna	Digital voltmeter	TP203 (H)	SVR201	 Tune exactly, and adjust so that the digital voltmeter indication becomes less than 2V.

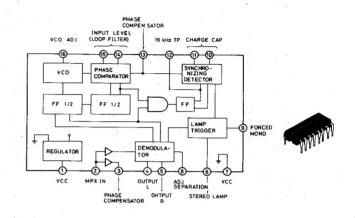
(3) LW BandSet BAND switch in the LW position.

101110		FREQUENCY	4NI	INPUT CONDITION		OUTPUT CONDITION	NDITION	O'NILON O'N	
CIRCUIT	<i>9</i> ≧ <u>⊢</u>	INDICATED	MEASURING INSTRUMENT	FREQUENCY	CONNECT. POINT	MEASURING	CONNECT	POINT	ADJUSTING PROCEDURE
	row	Lower limit	AM-SG	144kHz	AM loop	Digital	тР401 ⊕	1 16.4	Adjust so that the digital voltmeter Adjust so that the digital voltmeter
Covering					autenna	Voltmeter	TP1 (E)	+612	indication becomes 1.0 ± 0.05 V.
frequency	нвн	Upper limit	AM-SG	290k Hz	AM loop	Digital	TP401 ℍ	OTACA	Adjust so that the digital voltmeter
					antenna	voitmeter	TP1 (E)	C1134	indication becomes 0.0 ± 0.1V.
Tracking	ГОМ	162kHz	AM-SG	162kHz	AM loop antenna	VTVM Oscilloscope	Output plug	L152	 Adjust so that the output value becomes the maximum.
frequency	нвн	279kHz	AM-SG	279kHz	AM loop antenna	VTVM Oscilloscope	Output plug	CT152	Adjust so that the output value becomes

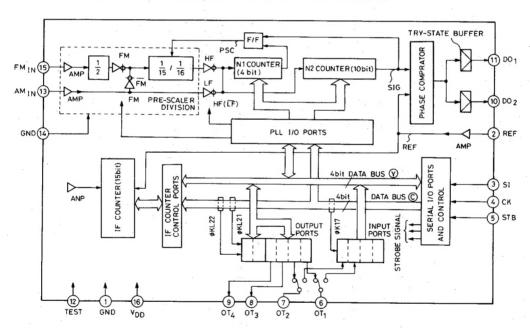
IC201 LA1265 (TUNER SYSTEM)

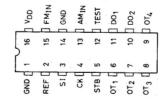
IC301 LA3361 (FM PLL-MPX STEREO DEMODULATOR





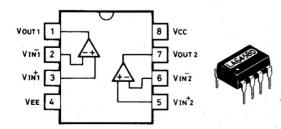
IC401 TC9172P (HIGH-SPEED PLL WITH PRE-SCALER)



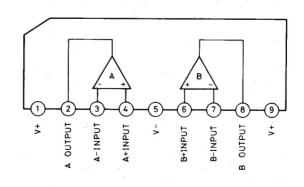




IC701 LA6458DS

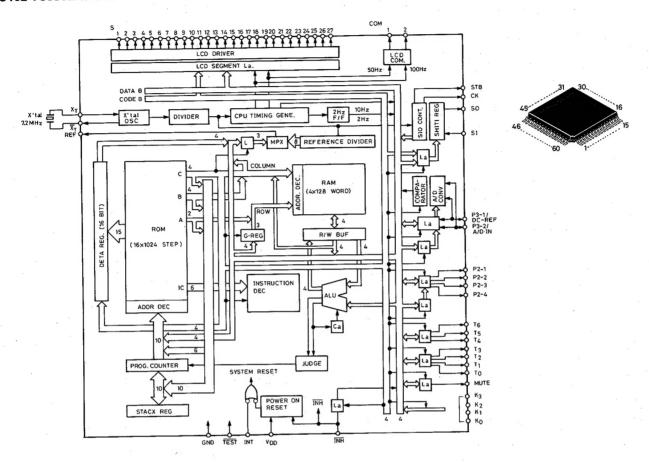


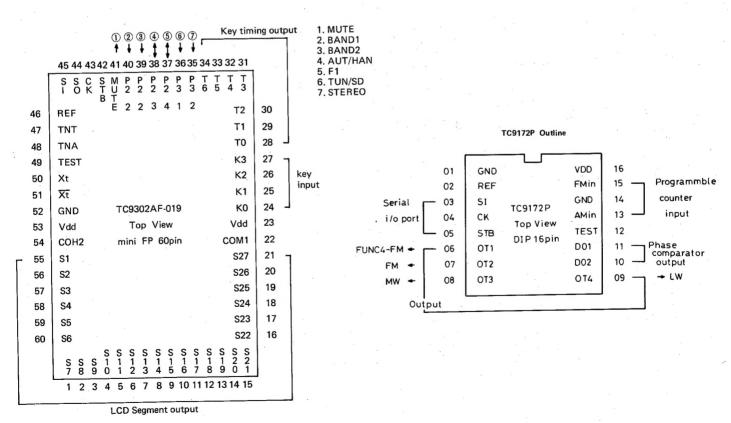
IC721 LA6458S





IC402 TC9302AF-019





SYSTEM SUMMARY (TC 9302AF-019)

Combined with PLL LSI TC 9172P, high efficiency digital tuning system with FM/MW/LW 3-band can be made.

BAND

BAND	CODE A B	FREQUENCY (Hz)	STEP (Hz)	Fref (Hz)	IF (Hz)	
	0 0	87.9 ~ 107.9 M	200K		+10.7M	
FM	1 0	87.50 ~ 108.00 M	50K	25K	+10.7W	
LIVI	0 1	76.0 ~ 90.0 M	100K	251	-10.7M	
	1 1	87.40 ~ 108.10 M	50K		+10.7M	
	0 0	530 ∼ 1600 K	10K	10K	+450K	
MW	1 0	531 ~ 1602 K				
IVIVV	0 1	522 ~ 1611 K	9K	9K	+459K	
	1 1	522 ~ 1629 K	1			
	0 0	LW NO BAND				
LW	1 0	153 ~ 281 K	AUTO MAN 9K/1K	1K	+459K	
	0 1	144 ~ 290 K	J. J.C./TR			

I/O PORT TC9302AF-019

PORT	NO.	NAME	FUNCTION	ACTIVE	FIRST SETTING
MUTE	41	MUTE	MUTE OUTPUT	Н	Н
P2-1	40	BAND 1	*1	Н	
P2-2	39	BAND 2	BAND INPUT	Н	_
P2-3	38	AUTO/MANUAL	AT/MA INPUT/OUTPUT		
		LOCK KEY	INPUT	Н	-
		CYCLIC KEY	OUTPUT	Н	L
P2-4	37	FM MUT	F1 INPUT/OUTPUT		
		LOCK KEY	INPUT	Н	
		CYCLIC KEY	OUTPUT	Н	L
P3-1	36	TUNED & SD	TUNED & SD INPUT	L	-
P3-2	.35	STEREO	STEREO INPUT	L	

*1	BAND 2	BAND 1	BAND
	L	H	FM
	Н	L	MW
	Н	Н	LW

TC9172P

PORT	NO.	NAME	FUNCTION	ACTIVE	FIRST SETTING
OT 1	06	FM	FM BAND OUTPUT	Н	Н
OT 2	07	AM (MW, LW)	LW, MW OUTPUT	Н	L
OT 3	08	MW	MW BAND OUTPUT	Н	L
OT 4	09	LW	LW BAND OUTPUT	Н	L

Function of terminals

Pin No.	Symbol	Name	Function
22 54	COM1	LCD common output	These are output terminals for commun signal to LCD. It is possible to display maximum 54 segment at matrix of S1 $-$ S27. Three levels of VDD, 1/2VDD and GND at 5ms intervals is output with 50Hz cycle from these terminals.
55 ~ 60 1 ~ 21	$S_1 \sim S_6$ $S_7 \sim S_{27}$	LCD segment output	These are output terminals of segment signal. It is possible to display maximum 54 segment of matrix of CCM1 and CCM2.
24 ~ 27	K ₀ ~ K ₃	Key input port	These are 4-bit input port for key matrix input. All these terminals have pull down resistor themselves. Usually, $T_0 \sim T_7$ output ports are used for key return timing signal output.
28 ~ 34	T ₀ ~ T ₆	Key timing output port	These are output ports for 4-bit ($T_0 \sim T_3$) and 3-bit ($T_4 \sim T_6$). Usually, these are used for key return timing signal output of key matrix.
35 36	P3-2 /A/D.IN P3-1 /DC. REF	I/O port 3 A-D /analogue voltage input /standard voltage input	These are I/O ports of 2-bit. The port can designate output and input at every 1 bit and the designation can be made depend on contents of inner port called PORT-3 I/O CONTROL. Also, these terminals are used for analogue input of built-in 4-bit A/D converter. Change control to A/D converter input is made depend on contents of PORT-3 I/O CONTROL port. Built-in A/D converter is controlled by program of random comparation system, P3-1 is for standard voltage input and P3-2 is for analogue comparate input.
37 ~ 40	P2-4 P2-1	I/O port-2	These terminals are 4-bit I/O ports. The port can designate the output and input at every 1 bit and designation can be made depend on contents of inner port called PORT-2 I/O CONTROL.
41	MUTE	Muting signal output port	This terminal is for 1 bit output port and usually used for muting control signal output. Note: When INH input is changing "H" to "L" or "L" to "H" alternately, output will automatically be set to "H" level.
42	STB	Strobing pulse output Serial clock	These terminals are for serial interface. It can control an external PLL LSI or optional IC by SIO command. Serial transmission mode of NCD/NCD can be selected by the program.
43 44	so	output Serial data	
45	SI	output Serial data input	
46	REF	Reference Frequency Signal output	This is output terminal for standard frequency signal to PLL LSI. Eight kind of 1kHz, 5kHz, 9kHz, 10kHz, 12.5kHz, 25kHz, 50kHz and 100kHz standard frequency signal can be selected by the program. Note: When INH is in "L" level, output is automatically fixed to "L" level.
47	INT	Initialize input	This is input terminal for system reset signal of device. When INT is in "L" level, device will be reset. When INT are "H" level, program starts from "0". This terminal is used in "H" level setting because usually, when 0V → 4.5V voltage is applied to V _{DD} , device will be reset (power on reset). Note: After system reset, I/O port is set to input mode but output port is instable, therefore, initialize the program depend on condition if needed.

Pin No.	Symbol	Name	Function
48	INH	Inhibit input	This is input port for signal selection of radio mode. It judges "radio on" by "H" level input and "radio off" by "L" level input. When this terminal is in "L" level, reference output is automatically fixed to "L" level.
49	TEST	Test mode control input	This is input terminal for test mode control. It becomes test mode at "H" level and normal mode at "L" level or NC condition. This terminal has pull down resistor itself and usually it is set to NC or "L" level.
50 51	X _T	X'tal OSC terminal	This is connection terminal for X'tal. Connect 7.2MHz X'tal to this terminal.
52	GND	GND terminal	This is ground terminal of device.
23 53	VDD	Power supply terminal	These are terminals for V _{DD} . Usually applies 5V ± 10% to this terminals. Voltage can be reduced to 2V for back up condition. Also, when 0V → 4.5V is applied to these terminals, device will be in system reset and program start from "0". Note: Make power on reset at the "L" level (= INH) condition.

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol \triangle in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with \triangle , use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual.

Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

NOTE:

* Materials of Capacitors are abbreviated as follows;

AL ELECT Aluminum Electrolytic
BC CON Semiconductor Ceramic
CHIP BC Chip Semiconductor Ceramic

CHIP TAN Chip Tantal

ELECT Electrolytic

PP CON Polypropylene

* Tolerance of Capacitors are noted with following symboles;

PACKING & ACCESSORIES

Ref. No.	Part No.	Description
	141-6-133T-86101	INNER CORR CASE (EUROPE)
	141-6-133T-86104	INNER CORR CASE (ITALY)
	141-6-133T-86105	INNER CORR CASE (W.GERMANY)
	141-6-144T-89000	FOAM PLASTIC CASE, LEFT
	141-6-144T-89100	FOAM PLASTIC CASE, RIGHT
	141-6-235T-50601	INNER POLYE
		LAMINA COVER 500X600
	141-6-235T-50605	INNER POLE
		LAMINA COVER 500X600
	141-6-409T-39600	INST MANUAL (EUROPE)
	141-6-409T-39602	INST MANUAL (ITALY)
	141-6-409T-39603	INST MANUAL (W.GERMANY)
	141-6-415T-43800	NOTICE, ZZF (W.GERMANY)
	141-6-231T-20300	INNER POLYE COVER
	4-245T-00700	ANTENNA, FM

Ref. No.	Part No.	Description
23	141-2-329T-10600	REFLECTOR, LCD
24	141-2-247T-63900	SHEET, LCD
25	141-2-247T-66400	SHEET, LCD
26	141-2-310T-47000	BRACKET, HEAT SINK
27	141-2-290T-02300	BRACKET, PHONO PCB MTG
28	141-2-448T-36900	CUSHION 35X20X2
29	123-2-472R-00401	LUG (W.GERMANY)
Y1	BJB2S++3+8+Z1	BIND HD 2 TAPPING SCREW 3X8
Y2	141-2-421T-24700	SPECIAL SCREW
Y3	BJX6S++3+8+Z1	PAN WASHER HD 2
		TAPPING SCREW 3X8
Y4	BJESS++4+8+Z1	BIND HD S TITE SCREW 4X8
Y5	BJESS++3+6+Z1	BIND HD S TITE SCREW 3X6
Y6	141-2-421T-43931	SPECIAL SCREW (W.GERMANY)
Y7	BJB2S++3+8+ZK	BIND HD 2 TAPPING SCREW 3X8
Y8	BJS2S2R6+8+Z1	FLAT HD 2 TAPPING SCREW 2.6X8

CABINET & CHASSIS

Ref. No.	Part No.	Description
1	141-0-122T-66400	FRONT PANEL ASSY
_		(W.GERMANY/EUROPE)
0.	141-0-122T-66403	FRONT PANEL ASSY (ITALY)
2	141-2-111T-55541	CABINET
3	141-2-164T-37700	SLIDE KNOB, VOLUME, LEFT
4	141-2-164T-37800	SLIDE KNOB, VOLUME, RIGHT
5	141-2-164T-36204	SLIDE KNOB, EQUALIZER
6	141-0-125T-33406	BOTTOM LID ASSY
		(W.GERMANY/EUROPE)
	141-0-125T-33407	BOTTOM LID ASSY (ITALY)
.7	141-2-310T-75001	BRACKET, HEAD SINK, FRONT
8	141-2-310T-75101	BRACKET, HEAD SINK, REAR
9	141-2-160T-38900	PUSH BUTTON, POWER SWITCH
10	141-2-160T-09701	PUSH BUTTON, SPEAKER
11	141-2-160T-09701	PUSH BUTTON, LOUD/MUTE
12	141-2-160T-57401	PUSH BUTTON, FUNCTION
13	141-2-160T-59901	PUSH BUTTON, BAND
14	141-2-160T-81900	PUSH BUTTON, TUNING
15	141-2-464T-14400	FIXER
16	141-2-119T-05800	BACK PANEL (EUROPE)
	141-2-119T-05803	BACK PANEL (ITALY)
	141-2-119T-05805	BACK PANEL (W.GERMANY)
17	141-2-210T-71200	BRACKET, CONNECTOR, LARGE
18	141-2-210T-71300	BRACKET, CONNECTOR, SMALL
19	141-2-310T-77100	BRACKET, FUNCTION PCB
20	141-2-310T-97401	BRACKET, IC MTG
21	141-2-210T-70801	BRACKET, ANTEENA
22	141-2-210T-78800	BRACKET, LCD

ELECTRICAL PARTS

Ref. No.	Part No.	Description
67	⚠ 4-320T-21900	POWER TRANSFORMER
		(W.GERMANY/EUROPE)
	⚠ 4-320T-22700	POWER TRANSFORMER (ITALY)
68	⚠ 4-243T-84973	AC POWER CORD
69	△ 4-234T-11084	FUSE 250V 1.0A SEMUKO (F999)
70	△ 4-234T-11089	FUSE 250V 2.5A
		SEMUKO (F751/F851)
71	4-237T-09990	TERMINAL BOARD SPEAKER
		(EUROPE)
	4-237T-09993	TERMINAL BOARD SPEAKER
ļ	7	(W.GERMANY)
72	141-2-368T-30701	HEAT SINK
73	4-290T-16600	P.C BOARD, PT. PRIMARY
74	4-290T-16700	P.C BOARD, INSULATOR
75	4-269T-00101	LOOP ANT ASSY
		(W.GERMANY/EUROPE)
*	4-269T-00104	LOOP ANT ASSY (ITALY)
76	141-2-322T-87201	SHIELD PLATE
	4-267T-17173	
	4-267T-17175	
	4-267T-17177	SOCKET, 7P
	4-267T-17178	SOCKET, 8P
	4-240T-83572	SOCKET, 2P
	4-240T-83573	SOCKET, 3P
	4-240T-83574	
	4-240T-83577	SOCKET, 7P
	4-240T-47673	SOCKET, 3P

MAIN PCB ASSY

Ref. Part No. Description No. 50 141-4-290T-15300 P.C BOARD ASSY, MAIN (EUROPE) P.C BOARD ASSY, MAIN (ITALY) 141-4-290T-15301 141-4-290T-15302 P.C BOARD ASSY. MAIN (W.GERMANY) L751 4-265T-07930 VHF COIL 4-265T-07930 VHF COIL L851 IC751 4-206T-05100 I.C STK4152MK2 **↑** STD438+F+++++ TR 2SD438 F 0921 **△** STB560+F+++++ Q922 TR 2SB560 F D901 **⚠** SDGP15+LD++++ DIODE GP15 D L FORMING **A** SDGP15+LD++++ DIODE GP15 D L FORMING D902 D903 **⚠** SDGP 1.5+LD++++ DIODE GP15 D L FORMING ↑ SDGP15+LD++++ DIODE GP15 D L FORMING D904 SDMTZ150B+++T D921 ZENER DIODE MTZ15.0B D922 SDMTZ150B+++T ZENER DIODE MTZ15.0B C751 CE+50105MR++F ELECT 1MF 50V M R C752 CC+50181KRSLF CERAMIC 180PF 50V K R SL C753 CE6R3107MR++F ELECT 100MF 6.3V M R CE+50476MR++F ELECT 47MF 50V M R C754 CM+50473MR++F MYLAR 0.047MF 50V M R C755 401 024 6443 C756 CERAMIC 100PF 50V K R SL (W.GERMANY) C851 CE+50105MR++F ELECT 1MF 50V M R C852 CC+50181KRSLF CERAMIC 180PF 50V K R SL C853 CE6R3107MR++F ELECT 100MF 6.3V M R CE+50476MR++F ELECT 47MF 50V M R C854 MYLAR 0.047MF 50V M R CM+50473MR++F C855 C856 CC+50101KRSLF CERAMIC 100PF 50V K R SL (W.GERMANY) CC+50103ZRZFF C901 CERAMIC 0.01MF 50V Z R ZF C902 CC+50103ZRZFF CERAMIC 0.01MF 50V Z R ZF CERAMIC 0.01MF 50V Z R ZF C903 CC+50103ZRZFF CERAMIC 0.01MF 50V Z R ZF C904 CC+50103ZRZFF C905 CC+50103ZRZFF CERAMIC 0.01MF 50V Z R ZF C906 CC+50103ZRZFF CERAMIC 0.01MF 50V Z R ZF **ELECT 3300MF 50V** C907 4-163T-12400 C908 4-163T-12400 ELECT 3300MF 50V ELECT 100MF 50V M Y CE+50107MY++S C911 ELECT 100MF 50V M Y C912 CE+50107MY++S C921 CE+16227MY++S ELECT 220MF 16V M Y C922 CE+16227MY++S ELECT 220MF 16V M Y C950 CC+50103ZRZFF CERAMIC 0.01MF 50V Z R ZF (W.GERMANY) CARBON 1K JA 1/6W R751 401 024 7044 R752 401 024 7747 CARBON 100K JA 1/6W R753 401 027 5948 CARBON 68K JA 1/6W R754 401 027 2343 **CARBON 560 JA 1/6W** R755 401 022 4164 CARBON 68K JA 1/4W R756 401 016 3869 CARBON 2.2K JA 1/4W R757 401 008 7204 CARBON 2.2K JB 1/2W CARBON 10 JB 1/2W R758 401 006 9002 R759 △ 401 010 5601 **CARBON 5.6 JB 1/2W** R851 401 024 7044 CARBON 1K JA 1/6W CARBON 100K JA 1/6W R852 401 024 7747 R853 401 027 5948 CARBON 68K JA 1/6W R854 401 027 2343 **CARBON 560 JA 1/6W** CARBON 68K JA 1/4W R855 401 022 4164 R856 401 016 3869 CARBON 2.2K JA 1/4W R857 401 008 7204 CARBON 2.2K JB 1/2W CARBON 10 JB 1/2W 401 006 R858 9002 R859 A 401 010 5601 CARBON 5.6 JB 1/2W A 401 012 4206 **CARBON 100 JB 1/4W** R911 R912 401 012 4206 **CARBON 100 JB 1/4W** R913 401 019 1961 CARBON 3.9K JA 1/4W R914 401 012 5768 CARBON 1K JA 1/4W OXIDE-MT 330 JA 1W R921 401 061 2505 R922 A 401 061 2505 OXIDE-MT 330 JA 1W **∆**401 018 3877 R923 CARRON 3 3K IA 1/4W R924 401 018 3877 CARBON 3.3K JA 1/4W R941 401 024 6443 CARBON 10 JA 1/6W (W.GERMANY)

FUNCTION SWITCH PCB ASSY

FUNCTIO	N SWITCH PCB A	ASSY
Ref. No.	Part No.	Description
51	141-4-290T-15400	P.C BOARD ASSY, FUNCTION SWITCH (EUROPE)
	141-4-290T-15401	P.C BOARD ASSY, FUNCTION SWITCH (ITALY)
	141-4-290T-15402	P.C BOARD ASSY, FUNCTION SWITCH (W.GERMANY)
77	4-267T-41471 4-267T-25173	SOCKET W/LEAD, DECK SOCKET, 3P
S1~4	4-236T-32375 4-248T-28071	PLUG, TUNER SWITCH, FUNCTION
S5,6 IC721	4-248T-28100 SILA6458S++++	SWITCH, MUTE/LOUD IC LA6458S SIP9
Q730 Q731	STC536+G+++UB STC536+G+++UB	TR 2SC536 G AUD B SP TR 2SC536 G AUD B SP
Q732	STC536+G+++UB	TR 2SC536 G AUD B SP
Q733 Q734	STC536+G+++UB STC536+G+++UB	TR 2SC536 G AUD B SP TR 2SC536 G AUD B SP
Q830	STC536+G+++UB	TR 2SC536 G AUD B SP
Q831 0832	STC536+G+++UB STC536+G+++UB	TR 2SC536 G AUD B SP
Q833	STC536+G+++UB	TR 2SC536 G AUD B SP TR 2SC536 G AUD B SP
Q834	STC536+G+++UB	TR 2SC536 G AUD B SP
C712	CC+50101KRSLF	CERAMIC 100PF 50V K R SL (W.GERMANY)
C713	CC+50101KRSLF	CERAMIC 100PF 50V
0701	0015022180015	K R SL (W.GERMANY)
C721 C722	CC+50331KRSLF CC+50101KRSLF	CERAMIC 330PF 50V K R SL CERAMIC 100PF 50V K R SL
C723	CE+16106MR++F	ELECT 10MF 16V M R
C724 C725	CC+50561KRSLF CB+25104KRXRF	CERAMIC 560PF 50V K R SL BC CON 0.1MF 25V K R XR
C726	CC+50101KRSLF	CERAMIC 100PF 50V
		K R SL (W.GERMANY)
C730 C731	CE+50225MR++F CF+50104JR++F	ELECT 2.2MF 50V M R METAL POLY 0.1MF 50V J R
C732	CE+50474MR++F	ELECT 0.47MF 50V M R
C733 C734	CB+25223KRXRF CF+50124JR++F	BC CON 0.022MF 25V K R XR
C735	CB+25682KRXRF	METAL POLY 0.12MF 50V J R BC CON 0.0068MF 25V K R XR
C736	CB+25333KRXRF	BC CON 0.033MF 25V K R XR
C737 C738	CB+25152KRXRF CB+25822KRXRF	BC CON 0.0015MF 25V K R XR BC CON 0.0082MF 25V K R XR
C739	CC+50331KRSLF	CERAMIC 330PF 50V K R SL
C812	CC+50101KRSLF	CERAMIC 100PF 50V
C813	CC+50101KRSLF	K R SL (W.GERMANY) CERAMIC 100PF 50V
C821	CC+50331KRSLF	K R SL (W.GERMANY) CERAMIC 330PF 50V K R SL
C822	CC+50101KRSLF	CERAMIC 100PF 50V K R SL
C823 C824	CE+16106MR++F CC+50561KRSLF	ELECT 10MF 16V M R CERAMIC 560PF 50V K R SL
C825	CB+25104KRXRF	BC CON 0.1MF 25V K R XR
C826	CC+50101KRSLF	CERAMIC 100PF 50V K R SL (W.GERMANY)
C830	CE+50225MR++F	ELECT 2.2MF 50V M R
C831	CF+50104JR++F	METAL POLY 0.1MF 50V J R
C832 C833	CE+50474MR++F CB+25223KRXRF	BC CON 0.022MF 25V K R XR
C834	CF+50124JR++F	METAL POLY 0.12MF 50V J R
C835	CB+25682KRXRF	BC CON 0.0068MF 25V K R XR
C836 C837	CB+25333KRXRF CB+25152KRXRF	BC CON 0.033MF 25V K R XR BC CON 0.0015MF 25V K R XR
C838	CB+25822KRXRF	BC CON 0.0082MF 25V K R XR
C839 C923	CC+50331KRSLF CE+16476MR++F	CERAMIC 330PF 50V K R SL ELECT 47MF 16V M R
C924	CE+16476MR++F	ELECT 47MF 16V M R
C937	CB+25104KRXRF	BC CON 0.1MF 25V K R XR
C946	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF (W.GERMANY)
C947	CC+50103ZRZFF	CERAMIC 0.01MF 50V
C948	CC+50103ZRZFF	Z R ZF (W.GERMANY) CERAMIC 0.01MF 50V
3340	30.301032R211	Z R ZF (W.GERMANY)
	·	

Ref. No.	Part No.	Description
R712	401 012 5768	CARBON 1K JA 1/4W (W.GERMANY)
R713	401 012 5768	CARBON 1K JA 1/4W
R721	401 025 7845	(W.GERMANY) CARBON 2.2K JA 1/6W
R722	401 027 0349	CARBON 47K JA 1/6W
R723	401 025 7845	CARBON 2.2K JA 1/6W
R724 R725	401 025 7845 401 027 0349	CARBON 2.2K JA 1/6W CARBON 47K JA 1/6W
R725 R726	401 027 0349	CARBON 5.6K JA 1/6W
R727	401 026 4645	CARBON 33K JA 1/6W
R728	401 024 8041	CARBON 1M JA 1/6W
R729 R730	401 027 2640 401 027 2343	CARBON 5.6K JA 1/6W CARBON 560 JA 1/6W
R731	401 027 5948	CARBON 68K JA 1/6W
R732	401 027 2640	CARBON 5.6K JA 1/6W
R733	401 026 6649	CARBON 390 JA 1/6W
R734 R735	401 027 2343 401 027 5948	CARBON 560 JA 1/6W CARBON 68K JA 1/6W
R736	401 027 2640	CARBON 5.6K JA 1/6W
R737	401 026 6649	CARBON 390 JA 1/6W
R738	401 027 2343	CARBON 560 JA 1/6W CARBON 68K JA 1/6W
R739 R740	401 027 5948 401 027 2640	CARBON 58K JA 1/6W
R741	401 026 6649	CARBON 390 JA 1/6W
R742	401 027 2343	CARBON 560 JA 1/6W
R743	401 027 5948 401 027 2640	CARBON 68K JA 1/6W CARBON 5.6K JA 1/6W
R744 R745	401 027 2640	CARBON 390 JA 1/6W
R746	401 027 2343	CARBON 560 JA 1/6W
R747	401 027 5948	CARBON 68K JA 1/6W
R748 R749	401 027 2640 401 026 6649	CARBON 5.6K JA 1/6W CARBON 390 JA 1/6W
R812	401 012 5768	CARBON 1K JA 1/4W
		(W.GERMANY)
R813	401 012 5768	CARBON 1K JA 1/4W (W.GERMANY)
R821	401 025 7845	CARBON 2.2K JA 1/6W
R822	401 027 0349	CARBON 47K JA 1/6W
R823	401 025 7845	CARBON 2.2K JA 1/6W CARBON 2.2K JA 1/6W
R824 R825	401 025 7845	CARBON 47K JA 1/6W
R826	401 027 2640	CARBON 5.6K JA 1/6W
R827	401 026 4645	CARBON 33K JA 1/6W
R828 R829	401 024 8041 401 027 2640	CARBON 1M JA 1/6W CARBON 5.6K JA 1/6W
R830	401 027 2343	CARBON 560 JA 1/6W
R831	401 027 5948	CARBON 68K JA 1/6W
R832	401 027 2640 401 026 6649	CARBON 5.6K JA 1/6W CARBON 390 JA 1/6W
R833 R834	401 027 2343	CARBON 560 JA 1/6W
R835	401 027 5948	CARBON 68K JA 1/6W
R836	401 027 2640	CARBON 5.6K JA 1/6W
R837 R838	401 026 6649	CARBON 390 JA 1/6W CARBON 560 JA 1/6W
R839	401 027 5948	CARBON 68K JA 1/6W
R840	401 027 2640	CARBON 5.6K JA 1/6W
R841	401 026 6649	CARBON 390 JA 1/6W
R842 R843	401 027 2343 401 027 5948	CARBON 560 JA 1/6W CARBON 68K JA 1/6W
R844	401 027 2640	CARBON 5.6K JA 1/6W
R845	401 026 6649	CARBON 390 JA 1/6W
R846	401 027 2343	CARBON 560 JA 1/6W
R847 R848	401 027 5948 401 027 2640	CARBON 68K JA 1/6W CARBON 5.6K JA 1/6W
R849	401 026 6649	CARBON 390 JA 1/6W
R932	401 022 1955	CARBON 680 JA 1/4W
R933	401 013 5361	CARBON 1.2K JA 1/4W

LED PCB ASSY

Ref. No.	Part No.	Description
52	141-4-290T-15500 141-4-290T-15501 141-4-290T-15502	P.C BOARD ASSY, LED (EUROPE) P.C BOARD ASSY, LED (ITALY) P.C BOARD ASSY, LED (W.GERMANY)
D915 D936 D937	SLSLP238FB5PG SLSLP238FB5PG SLSLP238FB5PG	LED SLP238F-51P B GR, TUNER LED SLP238F-51P B GR, PHONO LED SLP238F-51P B GR, CD
D938	SLSLP138CB5RE	LED SLP138C-51 B RE, TAPE

VOLUME PCB ASSY

Ref. No.	Part No.	Description
53	141-4-290T-15600	P.C BOARD ASSY,
		VOLUME (EUROPE)
	141-4-290T-15601	P.C BOARD ASSY,
		VOLUME (ITALY)
	141-4-290T-15602	P.C BOARD ASSY,
		VOLUME (W.GERMANY)
	4-267T-25177	SOCKET, 7P
VR721	4-220T-17171	VARIABLE RESISITOR,
		100KB, VOLUME
VR821	4-220T-17171	VARIABLE RESISITOR,
		100KB, VOLUME

SPEAKER TERMINAL PCB ASSY

Ref. No.	Part No.	Description
54	141-4-290T-15700	P.C BOARD ASSY,
		SPKR TERMINAL (EUROPE)
	141-4-290T-15701	P.C BOARD ASSY,
		SPKR TERMINAL (ITALY)
	141-4-290T-15702	P.C BOARD ASSY,
		SPKR TERMINAL (W.GERMANY)
C762	CM+50562MR++F	MYLAR 0.0056MF 50V
		M R (W.GERMANY)
C763	CM+50562MR++F	MYLAR 0.0056MF 50V
		M R (W.GERMANY)
C862	CM+50562MR++F	MYLAR 0.0056MF 50V
		M R (W.GERMANY)
C863	CM+50562MR++F	MYLAR 0.0056MF 50V
		M R (W.GERMANY)
R762	401 012 3467	CARBON 10 JA 1/4W
		(W.GERMANY)
R862	401 012 3467	CARBON 10 JA 1/4W
		(W.GERMANY)

PHONO PCB ASSY

Ref. No.	Part No.	Description
55	141-4-290T-15800	P.C BOARD ASSY,
		PHONO (EUROPE)
	141-4-290T-15801	P.C BOARD ASSY,
		PHONO (ITALY)
	141-4-290T-15802	P.C BOARD ASSY,
		PHONO (W.GERMANY)
	4-240T-50300	SOCKET, CD
	4-240T-30372	SOCKET, PHONO
	4-267T-19800	SOCKET, CD SYN
	4-236T-17900	PLUG, 3P
	4-267T-25175	SOCKET, 5P
	4-267 T -25177	SOCKET, 7P
IC701	SILA6458DS+++	IC LA6458DS DIP08
C701	CE+25475RVLRS	ELECT 4.7MF 25V R V LR
C702	CC+50221KRSLF	CERAMIC 220PF 50V K R SL
C703	CC+50821KRYBF	CERAMIC 820PF 50V K R YB
C704	CE+10336MR++F	ELECT 33MF 10V M R
C705	CB+25472KRXRF	BC CON 0.0047MF 25V K R XR
C706	CB+25183KRXRF	BC CON 0.018MF 25V K R XR

Ref. No.	Part No.	Description
C707	CW+50105QVNPS	NONPOLAR 1MF 50V O V NP
C711	CC+50331KRSLF	CERAMIC 330PF 50V
	A 11 A	K R SL (W.GERMANY)
C801	CE+25475RVLRS	ELECT 4.7MF 25V R V LR
C802	CC+50221KRSLF	CERAMIC 220PF 50V K R SL
C803	CC+50821KRYBF	CERAMIC 820PF 50V K R YB
C804	CE+10336MR++F	ELECT 33MF 10V M R
C805	CB+25472KRXRF	BC CON 0.0047MF 25V K R XR
C806	CB+25183KRXRF	BC CON 0.018MF 25V K R XR
C807	CW+50105QVNPS	NONPOLAR 1MF 50V Q V NP
C811	CC+50331KRSLF	CERAMIC 330PF 50V
		K R SL (W GERMANY)
C925	CE+16476MR++F	ELECT 47MF 16V M R
C926	CE+16476MR++F	ELECT 47MF 16V M R
C927	CC+5:01:03ZRZFF	CERAMIC 0.01MF 50V Z R ZF
C928	CC+50103ZRZEF	CERAMIC 0.01MF 50V Z R ZF
C941	CC+50103ZRZFF	CERAMIC 0.01MF 50V
		Z R ZF (W.GERMANY)
C942	CC+50103ZRZFF	CERAMIC 0.01MF 50V
		Z R ZF (W.GERMANY)
C943	CC+50103ZRZFF	CERAMIC 0.01MF 50V
		Z R ZF (W.GERMANY)
C944	CC+50103ZRZFF	CERAMIC 0.01MF 50V
	Control of the second	Z R ZF (W.GERMANY)
C945	CC+50101KRSLE	CERAMIC 100PF 50V
		K R SL (W.GERMANY)
R701°	401 024 7044	CARBON 1K JA 1/6W
R702	401 027 0349	CARBON 47K JA 1/6W
R703	401 026 3945	CARBON 330 JA 1/6W
R704	401 025 1942	CARBON 15K JA 1/6W
R705	401 026 1644	CARBON 270K JA 1/6W
R706	401 027 2343	CARBON 560 JA 1/6W
R707	401 024 7747	CARBON 100K JA 1/6W
R711	401 024 7044	CARBON 1K JA 1/6W
		(W.GERMANY)
R801	401 024 7044	CARBON 1K JA 1/6W
R802	401 027 0349	CARBON 47K JA 1/6W
R803	401 026 3945	CARBON 330 JA 1/6W
R804	401 025 1942	CARBON 15K JA 1/6W
R805	401 026 1644	CARBON 270K JA 1/6W
R806	401 027 2343	CARBON 560 JA 1/6W
R807	401 024 7747	CARBON 100K JA 1/6W
R811	401 024 7044	CARBON 1K JA 1/6W
		(W.GERMANY)
R934	401 024 7450	CARBON 10K JA 1/6W
	100	
		L

POWER SWITCH PCB ASSY

FOWER .	OWER SWITCH PCD ASSI		
Ref. No.	Part No.	Description	
56	141-4-290T-15900	P.C BOARD ASSY, POWER SWITCH (EUROPE)	
	141-4-290T-15901	P.C BOARD ASSY, POWER SWITCH (ITALY)	
	141-4-290T-15902	P.C BOARD ASSY,	
	48 - 17 to 20 14 14 14 14 1	POWER SWITCH (W.GERMANY)	
	141-2-382T-18900	TERMINAL	
	141-2-381T-04202	BRACKET, FUSE	
S8	⚠ 4-238T-70380	SWITCH, POWER	
C999	⚠ 4-223T-12100	CAPACITOR 0.01MF 400V	
or	△ 4-223T-12280	CAPACITOR 0.01MF SEMKO	

SPEAKER SWITCH PCB ASSY

Ref. No.	Part No.	Description	
57	141-4-290T-16000 141-4-290T-16001	P.C BOARD ASSY, SPKR SWITCH (EUROPE) P.C BOARD ASSY, SPKR SWITCH (ITALY)	
	No. 12 oktobro 1 de en 1940 en 1950. Propinson de en 1950 e		

Ref. No.	Part No.	Description
57	141-4-290T-16002	P.C BOARD ASSY,
		SPKR SWITCH (W.GERMANY)
	141-2-381T-04202	BRACKET, FUSE
S7	4-238T-82200	SWITCH, SPEAKER
R761	401 009 5506	CARBON 330 JB 1/2W
R861	401 009 5506	CARBON 330 JB 1/2W
		1 2 4 4 C

HEADPHONE SOCKET PCB ASSY

Ref. No.	Part No.	Description
58	141-4-290T-16100	P.C BOARD ASSY,
	100	HEAD PHONE SOCKET (EUROPE)
	141-4-290T-16101	P.C BAORD ASSY,
	4.	HEAD PHONE SOCKET (ITALY)
	141-4-290T-16102	P.C BOARD ASSY,
		HEAD PHONE SOCKET
		(W.GERMANY)
	4-240T-63071	SOCKET, HEADPHONE
C761	CC+50221KRSLF	CERAMIC 220PF 50V
		K R SL (W.GERMANY)
C861	CC+50221KRSLF	CERAMIC 220PF 50V
		K R SL (W.GERMANY)

GRAPHIC EQUALIZER PCB ASSY

Ref. No.	Part No.	Description
59	141-4-290T-16200	P.C BOARD ASSY, G. EQ.(EUROPE)
	141-4-290T-16201	P.C BOARD ASSY, G. EQ.(ITALY)
	141-4-290T-16202	P.C BOARD ASSY,
		G. EQ.(W.GERMANY)
VR731,831	4-220T-42000	VARIABLE RESISTOR,
	A Company of the Company	250KW, 16KHZ
VR732,832	4-220T-42000	VARIABLE RESISTOR, 250KW, 4KHZ
VR733,833	4-220T-42000	VARIABLE RESISTOR, 250KW, 1KHZ
VR734,834	4-220T-42000	VARIABLE RESISTOR,
		250KW, 250HZ
VR735,835	4-220T-42000	VARIABLE RESISTOR, 250KW, 63HZ
R941	401 024 6443	CARBON 10 JA 1/6W
		(W.GERMANY)
R942	401 024 6443	CARBON 10 JA 1/6W (EUROPE)

P.T. SECONDARY PCB ASSY

Ref.	Part No.	Description
No.	Ture 110.	Description
60	141-4-290T-16300	P.C BOARD ASSY,
		P.T. SECONDARY (EUROPE)
	141-4-290T-16301	P.C BOARD ASSY,
		P.T. SECONDARY (ITALY)
	141-4-290T-16302	P.C BOARD ASSY,
		P.T. SECONDARY (W.GERMANY)
D931	⚠ SDDSF10+C+++T	DIODE DSF10 C T
D932	⚠ SDDSF10+C+++T	DIODE DSF10 C T
D933	⚠ SDDSF10+C+++T	DIODE DSF10 C T
D934	⚠ SDDSF10+C+++T	DIODE DSF10 C T
C931	CF+50104JR++F	METAL POLY 0.1MF 50V J R
C932	CE+35228MVHAS	ELECT 2200MF 35V M V HA S
C949	CC+50103ZRZFF	CERAMIC 0.01MF 50V
		Z R ZF (W.GERMANY)
R931	401 057 4100	OXIDE-MT 0.33 JA 1W

DC DECK PCB ASSY

Ref. No.	Part No.	Description
61	141-4-290T-16400	P.C BOARD ASSY, DC DECK (EUROPE)

Ref. No.	Part No.	Description
61	141-4-290T-16401	P.C BOARD ASSY,
	•	DC DECK (ITALY)
	141-4-290T-16402	P.C BOARD ASSY,
		DC DECK (W.GERMANY)
	4-267T-25173	SOCKET, 3P
IC931	⚠ SIAN7812F++++	IC AN7812F SIP3
C933	CE+50105MR++F	ELECT 1MF 50V M R
C934	CE+16106MR++F	ELECT 10MF 16V M R

DC TUNER PCB ASSY

Ref. No.	Part No.	Description
62	141-4-290T-16500	P.C BOARD ASSY,
		DC TUNER (EUROPE)
	141-4-290T-16501	P.C BOARD ASSY,
	*	DC TUNER (ITALY)
	141-4-290T-16502	P.C BOARD ASSY,
	,	DC TUNER (W.GERMANY)
IC932	⚠ SIAN7812F++++	IC AN7812F SIP3
C935	CE+50105MR++F	ELECT 1MF 50V M R
C936	CE+16106MR++F	ELECT 10MF 16V M R
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TUNER MAIN PCB ASS

Ref. No.	Part No.	Description
63	141-4-290T-07401	P.C BOARD ASSY,
		TUNER MAIN (EUROPE)
	141-4-290T-07404	P.C BOARD ASSY,
		TUNER MAIN (ITALY)
	141-4-290T-07405	P.C BOARD ASSY,
		TUNER MAIN (W.GERMANY)
	4-970T-02571	LCD
	141-2-382T-22700	TERMINAL, EXT.ANT
	4-240T-83575	SOCKET, 5P, TO AMP
	4-267T-41100	SOCKET, 5P,TO AMP
	4-267T-17176	SOCKET, 6P, TO RESET
	4-267T-17177	SOCKET, 7P, TO BAND
	141-2-322T-87100	SHIELD PLATE, CASE
	141-2-322T-42000	SHIELD PLATE, BACK
	4-267 T- 17172	SOCKET, 2P, TO LAMP
CV101	SCSVC211B+++1	VARACTOR DIODE SVC211B SP
CV102	SCSVC211B+++1	VARACTOR DIODE SVC211B SP
CV103	SCSVC211B+++1	VARACTOR DIODE SVC211B SP
CV151	SCKV1260B++++	VARACTOR DIODE KV1260B
CT101	4-224R-11600	TRIMMER
CT151	4-224T-15500	TRIMMER (W.GERMANY/EUROPE)
or	4-224T-15571	TRIMMER
CT152	4-224T-15400	TRIMMER (W.GERMANY/EUROPE)
or	4-224T-15471	TRIMMER
CT153	4-224T-15500	TRIMMER (W.GERMANY/EUROPE)
or	4-224T-15571	TRIMMER
CT154	4-224T-15400	TRIMMER (W.GERMANY/EUROPE)
or	4-224T-15471	TRIMMER
T201	4-256T-35040	I.F.T
T202	4-256T-39040	I.F.T
T251	4-256T-41740	I.F.T
L101	4-265T-02700	VHF COIL
L102	4-265T-58830	VHF COIL
L103	4-265T-65240	V.H.F COIL
L104	4-253T-15012	FILTER
L105	-4-265T-57244	VHF COIL
L151	4-257T-76600	ANT COIL
L152	4-257T-76700	ANT COIL
L153	4-258T-44640	O.S.C COIL
L154	4-258T-58340	O.S.C COIL
L201	4-253T-15044	FILTER
L401	4-253T-15020	FILTER
L402	4-253T-15020	FILTER
CF201	4-256T-84500	I.F FILTER

Ref. No.	Part No.	Description
CF202	4-256T-84500	I.F FILTER
CF203	4-256T-84500	I.F FILTER
CF251	4-256T-89471	I.F FILTER
CF252	4-256T-90100	I.F FILTER
BPF101	4-253T-20040	FILTER
LPF201	4-255T-06146	MX COIL
X401	4-225T-06200	CRYSTAL
SVR201	4-220T-19476	SEMI-FIXED RESISTOR,
		20KB (W.GERMANY/EUROPE)
or	4-222T-97576	SEMI-FIXED RESISTOR, 20KB
SVR202	4-220T-19476	SEMI-FIXED RESISTOR,
		20KB (W.GERMANY/EUROPE)
or	4-222T-97576	SEMI-FIXED RESISTOR, 20KB
SVR301	4-220T-19472	SEMI-FIXED RESISTOR,
344301	4-2201 19472	
	4 0007 07570	1KB (W.GERMANY/EUROPE)
or	4-222T-97572	SEMI-FIXED RESISTOR, 1KB
SVR302	4-220T-19475	SEMI-FIXED RESISTOR,
		10KB (W.GERMANY/EUROPE)
or	4-222T-97575	SEMI-FIXED RESISTOR, 10KB
F301	4-252T-11300	CHOKE
F302	4-252T-11300	CHOKE
TP201	4-237T-09000	TERMINAL BOARD
TP202	4-237T-09000	TERMINAL BOARD
TP203	4-237T-09000	TERMINAL BOARD
TP301	4-237T-09000	TERMINAL BOARD
TP401	4-237T-09000	TERMINAL BOARD
IC201	SILA1265S++++	IC LA1265S DIP22
IC301	SILA3361+++++	IC LA3361
IC401	SITC9172P++++	IC TC9172P DIP16
	1	
IC402	SITC9302AF019	IC TC9302AF-019 QIP60
Q101	SF2K212+++F++	FET 2SK212 F
Q102	STC2999E++++T	TR 2SC2999 E T
Q103	STC930+D+++C1	TR 2SC930 D CONV SP
Q104	STC2999E++++T	TR 2SC2999 E T
Q105	SF2K212+++F++	FET 2SK212 F
Q151	SF2K222+++E++	FET 2SK222 E
Q152	STD1012G++++T	TR 2SD1012 G T
Q153	STD1012G++++T	TR 2SD1012 G T
-	STD1012G++++T	TR 2SD1012 G T
Q154		
Q155	STD1012G++++T	TR 2SD1012 G T
Q156	STD1012G++++T	TR 2SD1012 G T
Q157	STC536+G+++UB	TR 2SC536 G AUD B SP
Q201	STC930+E+++F1	TR 2SC930 E IF SP
Q202	STC536+G+++UB	TR 2SC536 G AUD B SP
0203	STC536+G+++UB	TR 2SC536 G AUD B SP
Q301	STC536+G+++UB	TR 2SC536 G AUD B SP
-	STC536+G+++UB	TR 2SC536 G AUD B SP
Q302		
Q303	STD1012G++++T	TR 2SD1012 G T
Q304	STD1012G++++T	TR 2SD1012 G T
Q351	STC536+G+++UB	TR 2SC536 G AUD B SP
Q352	STA608+F++++B	TR 2SA608 F B SP
Q353	STA608+F+++B	TR 2SA608 F B SP
Q354	STC536+G+++UB	TR 2SC536 G AUD B SP
Q355	STC536+G+++UB	TR 2SC536 G AUD B SP
Q356	STA608+F++++B	TR 2SA608 F B SP
Q357	STC536+G+++UB	TR 2SC536 G AUD B SP
Q358	STA608+F++++B	TR 2SA608 F B SP
-		FET 2SK222 E
Q401	SF2K222+++E++	
Q402	STC1571F+++++	TR 2SC1571 F
Q403	STC2999E++++T	TR 2SC2999 E T
D101	SDGMA 0.1+++++T	DIODE GMA01
D102	SDGMA 0 1+++++T	DIODE GMA01
D301	SDDS442+X+++T	DIODE DS442 X
D302	SDDS442+X+++T	DIODE DS442 X
D351	SDGMA 0 1+++++T	DIODE GMA01
D352	SDMTZ062C+++T	ZENER DIODE MTZ6.2C
D401	SDGMA 0 1+++++T	DIODE GMA01
D402	SDGMA 0 1 + + + + + T	DIODE GMA01
D403	SDDS442+X+++T	DIODE DS442 X
D404	SDDS442+X+++T	DIODE DS442 X
D405	SDDS442+X+++T	DIODE DS442 X
D405	SDGMA01+++++T	DIODE GMA01
1.744.701	3 DOINA ULTTTTT	DIODE GIVIAUT
	CDCMAAO111111T	DIODE CMACI
D407 D408	SDGMA 0 1+++++T SDGMA 0 1+++++T	DIODE GMA01 DIODE GMA01

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
D409	SDGMA01+++++T	DIODE GMA01	C309	CC+50471KRYBF	CERAMIC 470PF 50V K R YB
D410	SDGMA01++++T	DIODE GMA01	C310	CC+50471KRYBF	CERAMIC 470PF 50V K R YB
D411	SDGMA 0 1+++++T	DIODE GMA01	C311	CE+50105MRHAF	ELECT 1MF 50V M R HA F
C101	CC+50101KAYBG	CERAMIC 100PF 50V K A YB	C312	CE+50105MRHAF	ELECT 1MF 50V M R HA F
C102	CC+50620JASLG	CERAMIC 62PF 50V J A SL	C313	CB+25392KRXRF	BC CON 0.0039MF, 25V K R XR
C103	CC+50220JASLG	CERAMIC 22PF 50V J A SL	C314	CB+25392KRXRF	BC CON 0.0039MF 25V K R XR
C104	CC+50101KAYBG	CERAMIC 100PF 50V K A YB	C315	CB+25222KRXRF	BC CON 0.0022MF 25V K R XR
C105	CC+50102KAYBG	CERAMIC 0.001MF 50V K A YB	C316	CB+25222KRXRF	BC CON 0.0022MF 25V K R XR
C106	CC+50102KAYBG	CERAMIC 0.001MF 50V K A YB	C317	CB+25223MRXRF	BC CON 0.022MF 25V M R XR
C107	CC+505R6KASLG	CERAMIC 5.6PF 50V K A SL	C321	CE+50105MRHAF	ELECT 1MF 50V M R HA F
C109	CC+50101KAYBG	CERAMIC 100PF 50V K A YB	C322	CE+50105MRHAF	ELECT 1MF 50V M R HA F
C110	CB+16103MA+YG	BC CON 0.01MF 16V M A Y	C323	CE+50474MRHAF	ELECT 0.47MF 50V M R HA F
C111	CB+16103MA+YG	BC CON 0.01MF 16V M A Y	C324	CN100102JR++F	P P CON 1000PF 100V J R
C112	CC+501R5MACHG	CERAMIC 1.5PF 50V M A CH	C351	CC+50103ZRYFF	CERAMIC 0.01MF 50V Z R YF
C113	CC+503R3KAUJG	CERAMIC 3.3PF 50V K A UJ	C352	CE+16107MRHAF	ELECT 100MF 16V M R HA F
C114	CC+50103ZRYFF	CERAMIC 0.01MF 50V Z R YF	C353	CE+25475MRHAF	ELECT 10MF 25V M R HA F
C115	CC+50100JACHG	CERAMIC 10PF 50V J A CH CERAMIC 22PF 50V J A UJ	C354 C355	CE+25106MRHAF CE+50105MRHAF	ELECT 10MF 25V M R HA F ELECT 1MF 50V M R HA F
C116	CC+50220JAUJG CC+50100JACHG	CERAMIC 10PF 50V J A CH	C356	CE+25106MRHAF	ELECT 10MF 25V M R HA F
C117 C118	CB+16103MA+YG	BC CON 0.01MF 16V M A Y	C401	CA+16154MV++S	AL ELECT 0.15MF 16V M V
C119	CC+50102KAYBG	CERAMIC 0.001MF 50V K A YB	C402	CB+25223MRXRF	BC CON 0.022MF 25V M R XR
C120	CC+50102KAYBG	CERAMIC 0.001MF 50V K A YB	C403	CC+50101KAYBG	CERAMIC 100PF 50V K A YB
C121	CC+50100JASLG	CERAMIC 10PF 50V J A SL	C404	CC+50102KAYBG	CERAMIC 0.001MF 50V K A YB
C122	CB+16103MA+YG	BC CON 0.01MF 16V M A Y	C405	CE+10107MRHAF	ELECT 100MF 10V M R HA F
C123	CC+50010MASLG	CERAMIC 1PF 50V M A SL	C406	CC+50103ZRYFF	CERAMIC 0.01MF 50V Z R YF
C124	CB+16103MA+YG	BC CON 0.01MF 16V M A Y	C407	CC+50102KAYBG	CERAMIC 0.001MF 50V K A YB
C125	CB+16103MA+YG	BC CON 0.01MF 16V M A Y	C408	CB+16103MA+YG	BC CON 0.01MF 16V M A Y
C126	CC+50102KAYBG	CERAMIC 0.001MF 50V K A YB	C409	CC+50103ZRYFF	CERAMIC 0.01MF 50V Z R YF
C127	CC+50103ZRYFF	CERAMIC 0.01MF 50V Z R YF	C410	CC+50180JACHG	CERAMIC 18PF 50V J A CH
C128	CC+50220JASLG	CERAMIC 22PF 50V J A SL	C411	CC+50180JACHG	CERAMIC 18PF 50V J A CH
C129	CB+16103ML+YG	BC CON 0.01MF 16V M L + Y	C412	CC+50102KAYBG	CERAMIC 0.001MF 50V K A YB
C130	CC+50100JASLG	CERAMIC 10PF 50V J A SL	C413	CE+25106MRHAF	ELECT 10MF 25V M R HA F
C151	CB+25223MRXRF	BC CON 0.022MF 25V M R XR	C414	CC+50103ZRYFF	CERAMIC 0.01MF 50V Z R YF
C153	CC+50102KRYBF	CERAMIC 0.001MF 50V K R YB	C415	4-223T-16100	CAPACITOR 0.1MF 5.5V
C154	CN100561JR++F	P P CON 560PF 100V J R	C416	CC+50102KAYBG	CERAMIC 0.001MF 50V K A YB
C155	CN100561JR++F	P P CON 560PF 100V J R	C417	CC+50102KAYBG	CERAMIC 0.001MF 50V K A YB
C156	CB+25223MRXRF	BC CON 0.022MF 25V M R XR	C418	CC+16103MA+YG	BC CON 0.01MF 16V M A Y
C157	CC+50220JASLG	CERAMIC 22PF 50V J A SL	C419	CB+16103MA+YG	BC CON 0.01MF 16V M A Y
C158	CC+50221KRYBF	CERAMIC 220PF 50V K R YB	C420	CB+16103MA+YG	BC CON 0.01MF 16V M A Y
C159	CB+25223MRXRF	BC CON 0.022MF 25V M R XR	R101	401 019 1961	CARBON 3.9K JA 1/4W
C160	CC+50120JRUJF	CERAMIC 12PF 50V J R UJ N750	R102	401 024 7450	CARBON 10K JA 1/6W
C161	CC+50680JRCHF	CERAMIC 68PF 50V J R CH F NP0	R103	401 024 7747 401 026 3747	CARBON 100K JA 1/6W
C201	CC+50103ZRYFF	CERAMIC 0.01MF 50V Z R YF	R104 R105	401 026 3747	CARBON 33 JA 1/6W CARBON 180 JA 1/4W
C202 C203	CC+50103ZRYFF CC+50223ZRYFF	CERAMIC 0.01MF 50V Z R YF CERAMIC 0.022 50V Z R YF	R106	401 013 1008	CARBON 10K JA 1/6W
C203	CC+50223ZRYFF	CERAMIC 0.022 50V Z R YF	R107	401 027 2640	CARBON 5.6K JA 1/6W
C204	CC+50223ZRYFF	CERAMIC 0.022 50V Z R YF	R108	401 025 1942	CARBON 15K JA 1/6W
C206	CE+50105MRHAF	ELECT 1MF 50V M R HA F	R109	401 025 1645	CARBON 1.5K JA 1/6W
C207	CB+25223MRXRF	BC CON 0.022MF 25V M R XR	R110	401 025 3847	CARBON 180 JA 1/6W
C208	CE+10107MRHAF	ELECT 100MF 10V M R HA F	R111	401 024 7450	CARBON 10K JA 1/6W
C209	CC+50101KAYBG	CERAMIC 100PF 50V K A YB	R112	401 027 8642	CARBON 8.2K JA 1/6W
C210	CC+50431JRSLF	CERAMIC 430PF 50V J R SL S	R113	401 025 1942	CARBON 15K JA 1/6W
C211	CB+16103MA+YG	BC CON 0.01MF 16V M A Y	R114	401 026 1040	CARBON 2.7K JA 1/6W
C212	CB+25473MRXRF	BC CON 0.047MF 25V M R XR	R115	401 025 3847	CARBON 180 JA 1/6W
C213	CE+25106MRHAF	ELECT 10MF 25V M R HA F	R116	401 025 3847	CARBON 180 JA 1/6W
C214	CC+50223ZRYFF	CERAMIC 0.022 50V Z R YF	R117	401 025 7449	CARBON 220 JA 1/6W
C215	CE+25475MRHAF	ELECT 4.7MF 25V M R HA F	R118	401 025 7845	CARBON 2.2K JA 1/6W
C216	CE+25475MRHAF	ELECT 4.7MF 25V M R HA F	R119	401 024 7747	CARBON 100K JA 1/6W
C217	CE+25475MRHAF	ELECT 4.7MF 25V M R HA F	R120	401 015 1668	CARBON 180 JA 1/4W
C218	CB+25223MRXRF	BC CON 0.022MF 25V M R XR	R121	401 026 3945	CARBON 330 JA 1/6W
C219	CB+25223MRXRF	BC CON 0.022MF 25V M R XR	R122	401 024 7450	CARBON 10K JA 1/6W
C220	CE+25106MRHAF	ELECT 10MF 25V M R HA F	R151	401 024 7450	CARBON 10K JA 1/6W
C221	CE+25106MRHAF	ELECT 10MF 25V M R HA F	R153	401 026 4645	CARBON 33K JA 1/6W
C222	CB+25223MRXRF	BC CON 0.022MF 25V M R XR	R155	401 024 7747	CARBON 100K JA 1/6W
C223	CE+25106MRHAF	ELECT 10MF 25V M R HA F	R156	401 026 4348	CARBON 3.3K JA 1/6W
C301	CC+50103ZRYFF	CERAMIC 0.01MF 50V Z R YF	R157	401 024 8041	CARBON 1M JA 1/6W
C302	CE+10107MRHAF	ELECT 100MF 10V M R HA F	R158	401 026 4348	CARBON 3.3K JA 1/6W
C303	CB+25103KRXRF	BC CON 0.01MF 25V K R·XR	R160	401 026 4348	CARBON 3.3K JA 1/6W
C304	CB+25103KRXRF	BC CON 0.01MF 25V K R XR	R162 R165	401 026 4348	CARBON 3.3K JA 1/6W CARBON 3.3K JA 1/6W
C305 C306	CE+50474MRHAF	ELECT 0.47MF 50V M R HA F ELECT 0.47MF 50V M R HA F	R166	401 026 4346	CARBON 5.5K JA 1/6W
0300	CE+50474MRHAF				OARBOIT SOUR SA 17 011
	CR+25222KPYPF	I BC CON O GOSSME SEVICE VEC	1816/		LCARBON: 220 IA 176W
C307 C308	CB+25222KRXRF CB+25222KRXRF	BC CON 0.0022MF 25V K R XR BC CON 0.0022MF 25V K R XR	R167 R168	401 025 7449 401 015 1668	CARBON 220 JA 1/6W CARBON 180 JA 1/4W

Ref. No.	Part No.	Description
R201	401 027 8345	CARBON 820 JA 1/6W
R202	401 026 7042	CARBON 3.9K JA 1/6W
R203	401 026 3945	CARBON 330 JA 1/6W
R204 R205	401 026 3945 401 024 7450	CARBON 330 JA 1/6W CARBON 10K JA 1/6W
R206	401 026 4645	CARBON 33K JA 1/6W
R207	401 015 1668	CARBON 180 JA 1/4W
R208	401 024 9048	CARBON 120 JA 1/6W
R210	401 025 8248	CARBON 22K JA 1/6W
R211 R212	401 026 4645 401 024 7450	CARBON 33K JA 1/6W CARBON 10K JA 1/6W
R213	401 024 7450	CARBON 10K JA 1/6W
R214	401 026 3945	CARBON 330 JA 1/6W
R216	401 024 7747	CARBON 100K JA 1/6W
R217	401 026 4348 401 025 4646	CARBON 3.3K JA 1/6W
R219 R220	401 025 4646 401 024 7747	CARBON 18K JA 1/6W CARBON 100K JA 1/6W
R221	401 027 3241	CARBON 560K JA 1/6W
R301	401 026 3945	CARBON 330 JA 1/6W
R302	401 026 4645	CARBON 33K JA 1/6W
R303 R304	401 026 9947 401 026 9947	CARBON 4.7K JA 1/6W CARBON 4.7K JA 1/6W
R305	401 024 9741	CARBON 12K JA 1/6W
R306	401 013 6467	CARBON 12K JA 1/4W
R307	401 024 9741	CARBON 12K JA 1/6W
R308	401 013 6467 401 025 7449	CARBON 12K JA 1/4W CARBON 220 JA 1/6W
R309 R310	401 025 7449 401 025 7449	CARBON 220 JA 1/6W
R311	401 027 6143	CARBON 680K JA 1/6W
R312	401 027 6143	CARBON 680K JA 1/6W
R313	401 016 3869	CARBON 2.2K JA 1/4W
R314 R315	401 016 3869 401 024 7747	CARBON 2.2K JA 1/4W CARBON 100K JA 1/6W
R316	401 024 7747	CARBON 100K JA 1/6W
R317	401 026 4348	CARBON 3.3K JA 1/6W
R318	401 018 3877	CARBON 3.3K JA 1/4W
R321 R322	401 024 7450 401 024 7450	CARBON 10K JA 1/6W CARBON 10K JA 1/6W
R323	401 012 7069	CARBON 10K JA 1/4W
R324	401 024 7044	CARBON 1K JA 1/6W
R325	401 022 3167	CARBON 6.8K JA 1/4W
R326 R351	401 015 3860 401 024 7747	CARBON 18K JA 1/4W CARBON 100K JA 1/6W
R352	401 025 8248	CARBON 22K JA 1/6W
R353	401 025 8248	CARBON 22K JA 1/6W
R354	401 026 4645	CARBON 33K JA 1/6W
R355	401 026 3945 401 026 4645	CARBON 330 JA 1/6W CARBON 33K JA 1/6W
R357	401 020 4043	CARBON 5.6K JA 1/4W
R358	401 026 4348	CARBON 3.3K JA 1/6W
R359	401 012 8165	CARBON 100K JA 1/4W
R360	401 026 4645 401 025 1942	CARBON 33K JA 1/6W
R361 R362	401 025 1942 401 026 3945	CARBON 15K JA 1/6W CARBON 330 JA 1/6W
R363	401 012 7069	CARBON 10K JA 1/4W
R364	401 024 7044	CARBON 1K JA 1/6W
R365	401 015 1668	CARBON 180 JA 1/4W
R366 R367	401 026 4645 401 025 1942	CARBON 33K JA 1/6W CARBON 15K JA 1/6W
R368	401 025 1942	CARBON 15K JA 1/6W
R401	401 027 5542	CARBON 6.8K JA 1/6W
R402	401 025 1645	CARBON 1.5K JA 1/6W
R403	401 027 2343	CARBON 560 JA 1/6W
R404 R405	401 025 1645 401 025 1942	CARBON 1.5K JA 1/6W CARBON 15K JA 1/6W
R406	401 014 5261	CARBON 15K JA 1/4W
R407	401 026 3945	CARBON 330 JA 1/6W
R408	401 027 5245	CARBON 680 JA 1/6W
R409 R410	401 024 7450 401 024 7450	CARBON 10K JA 1/6W CARBON 10K JA 1/6W
R410	401 024 7450	CARBON 10K JA 1/6W
R412	401 024 7450	CARBON 10K JA 1/6W
R413	401 024 7044	CARBON 1K JA 1/6W
	1 4 1	

Ref. No.	Part No.	Description	
R414	401 024 7044	CARBON 1K JA 1/6W	- , -
R415	401 024 7450	CARBON 10K JA 1/6W	: :
R416	401 024 7450	CARBON 10K JA 1/6W	
R417	401 024 7450	CARBON 10K JA 1/6W	
R418	401 026 4348	CARBON 3.3K JA 1/6W	1
R419	401 024 7450	CARBON 10K JA 1/6W	
R420	401 024 7450	CARBON 10K JA 1/6W	- 1
R422	401 026 4645	CARBON 33K JA 1/6W	- 4
R423	401 024 6740	CARBON 100 JA 1/6W	4
R424	401 018 4953	CARBON 33K JA 1/4W	
R3101	401 025 7449	CARBON 220 JA 1/6W	
			i

PRESET PCB ASSY

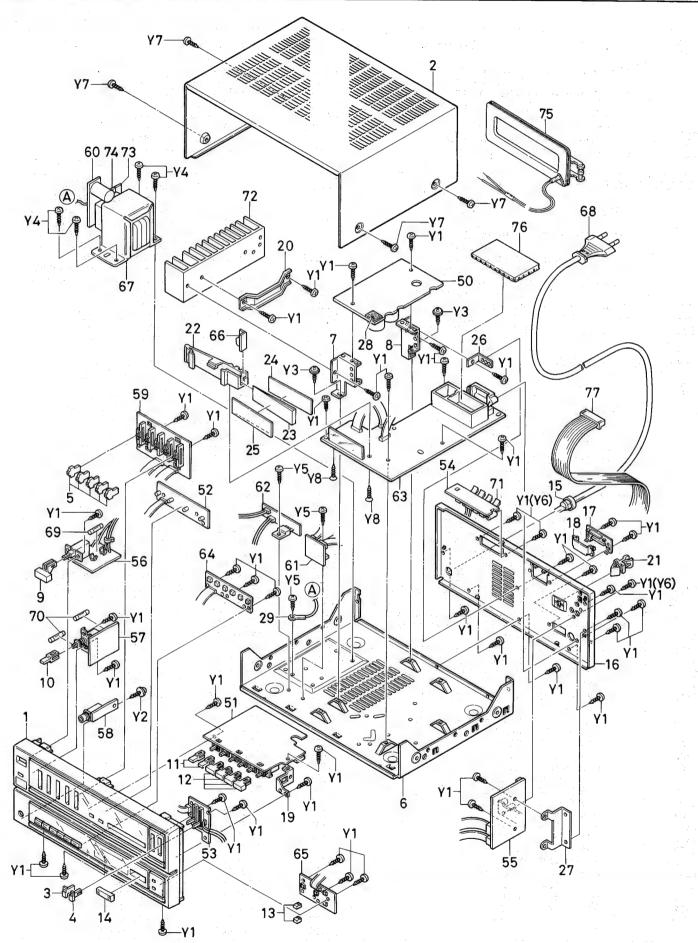
Ref. No.	Part No.	Description	: "
64	141-4-290T-07500	P.C BOARD ASSY,	
		PRESET (W.GERMANY/EUROPE)	
	141-4-290T-07501	P.C BOARD ASSY.	
		PRESET (ITALY)	
	4-267T-17176	SOCKET, 6P	
S401	4-238T-84673	SWITCH, CH1	
S402	4-238T-84673	SWITCH, CH2	
S403	4-238T-84673	SWITCH, CH3	٠.
S404	4-238T-84673	SWITCH, CH4	
S405	4-238T-84673	SWITCH, CH5	
S406	4-238T-84673	SWITCH, CH6	. :

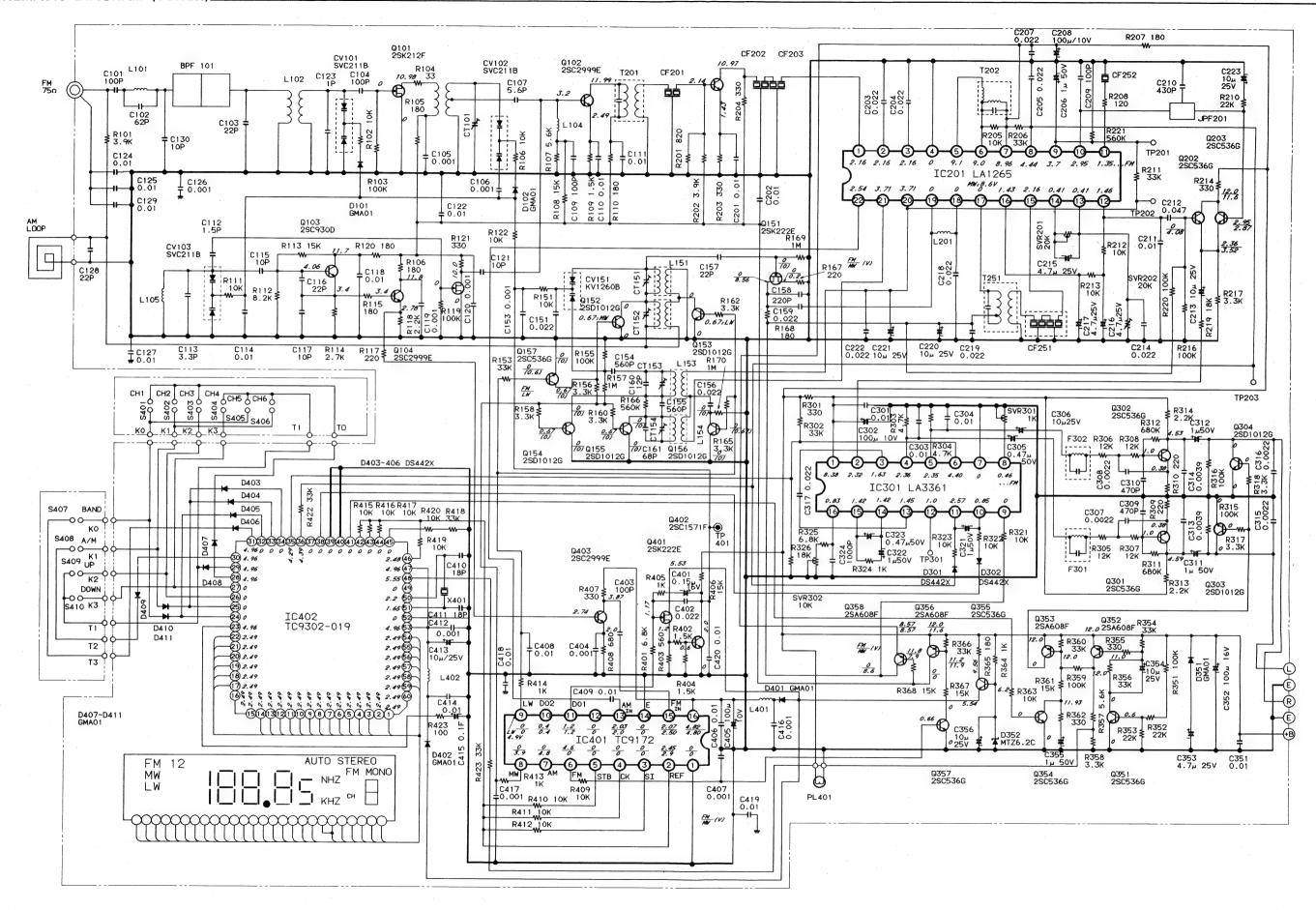
BAND SELECT SWITCH PCB ASSY

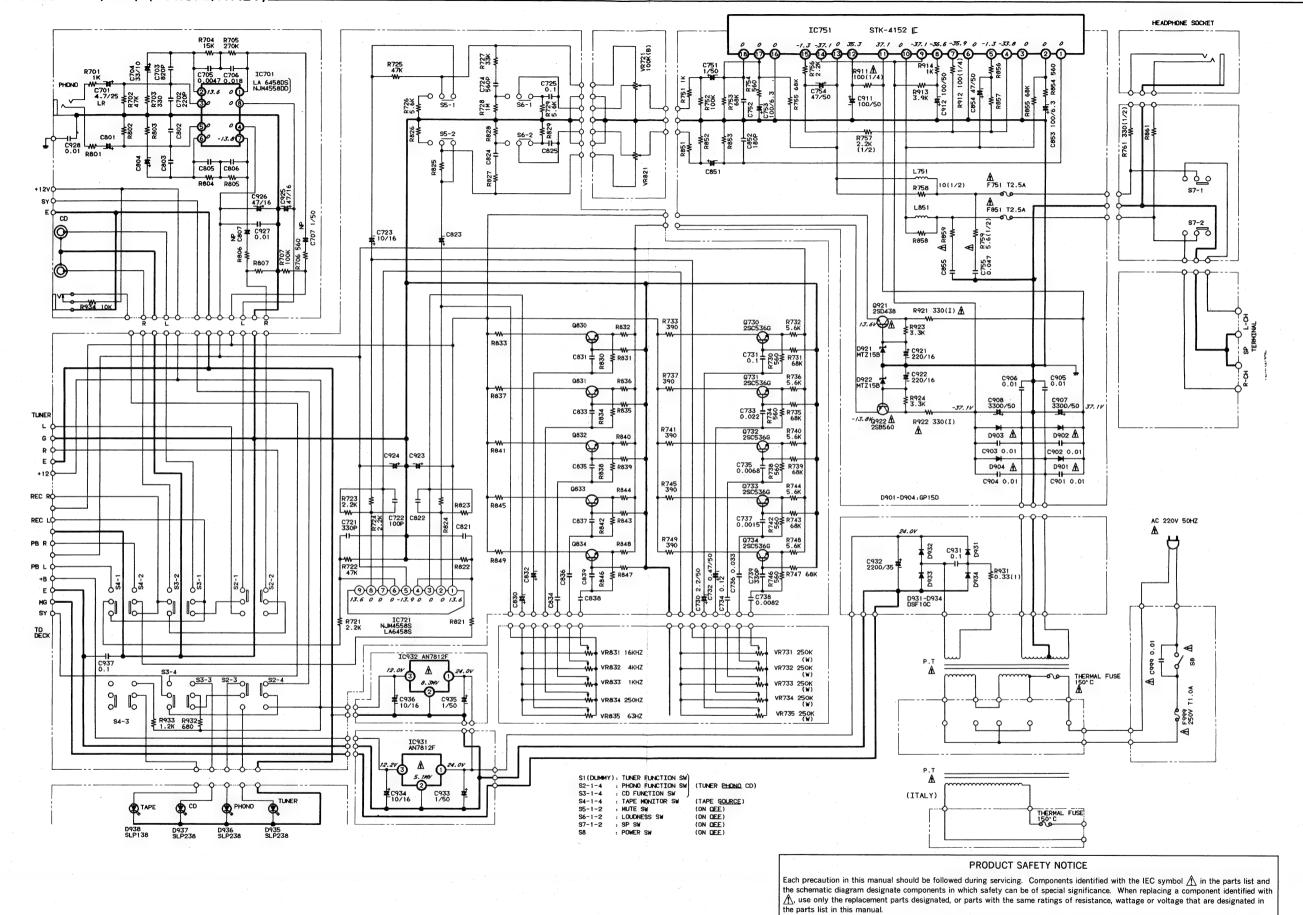
Ref. No.	Part No.	Description
65	141-4-290T-07600	P.C BOARD ASSY,
		BAND SELECT SWITCH
		(W.GERMANY/EUROPE)
	141-4-290T-07601	P.C BOARD ASSY,
		BAND SELECT SWITCH (ITALY)
	4-267T-17177	SOCKET, 7P
S407	4-238T-84673	SWITCH, BAND
S408	4-238T-84673	SWITCH, AM/FM
S409	4-238T-84673	SWITCH, UP
S410	4-238T-84673	SWITCH, DOWN

LAMP PCB ASSY

Ref. No.	Part No.	Description
66	141-4-290T-07700 141-4-290T-07701 141-2-329T-09300	P.C BOARD ASSY, LAMP (W.GERMANY/EUROPE) P.C BOARD ASSY, LAMP (ITALY) REFLECTOR
PL401	4-612T-17400	LAMP

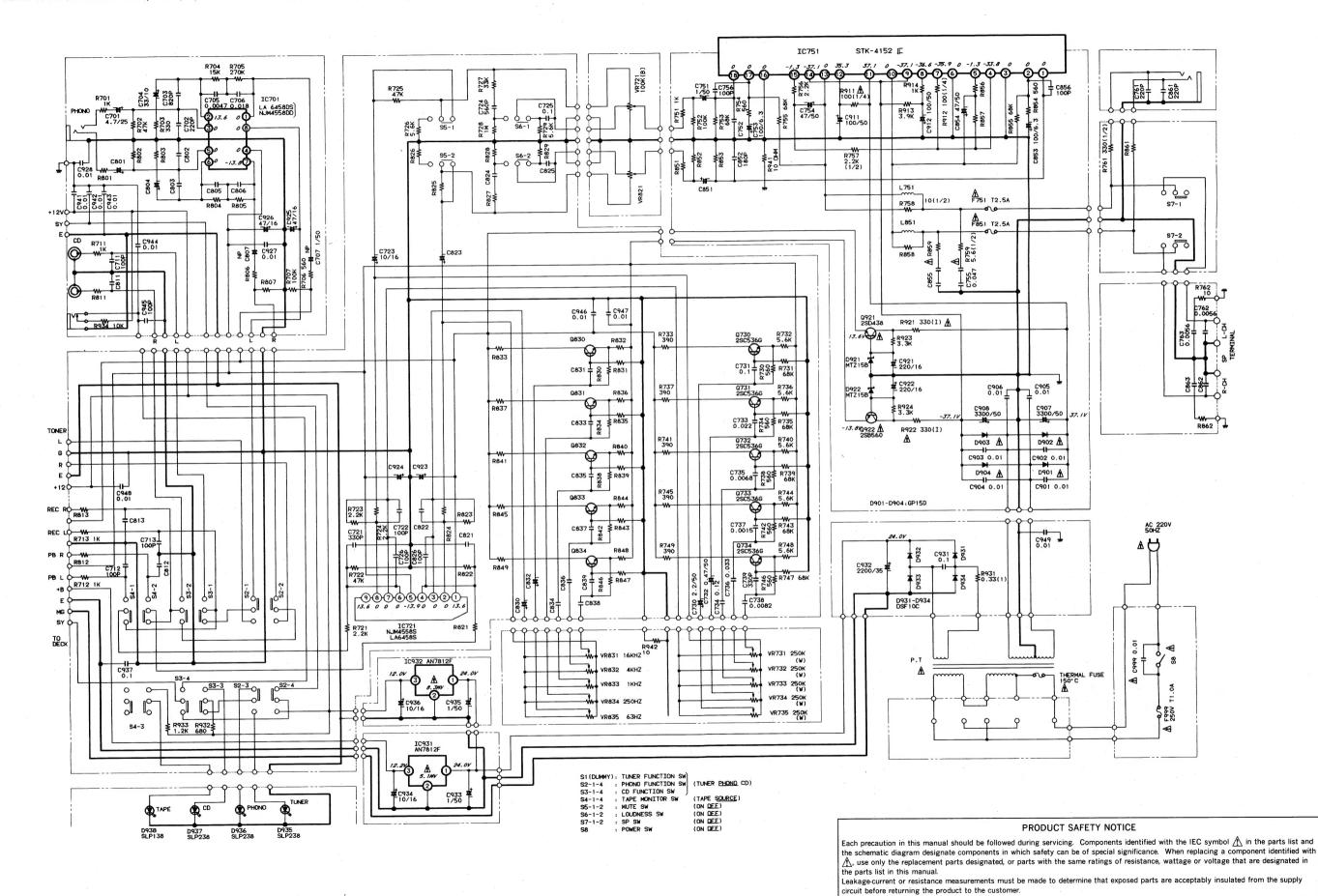


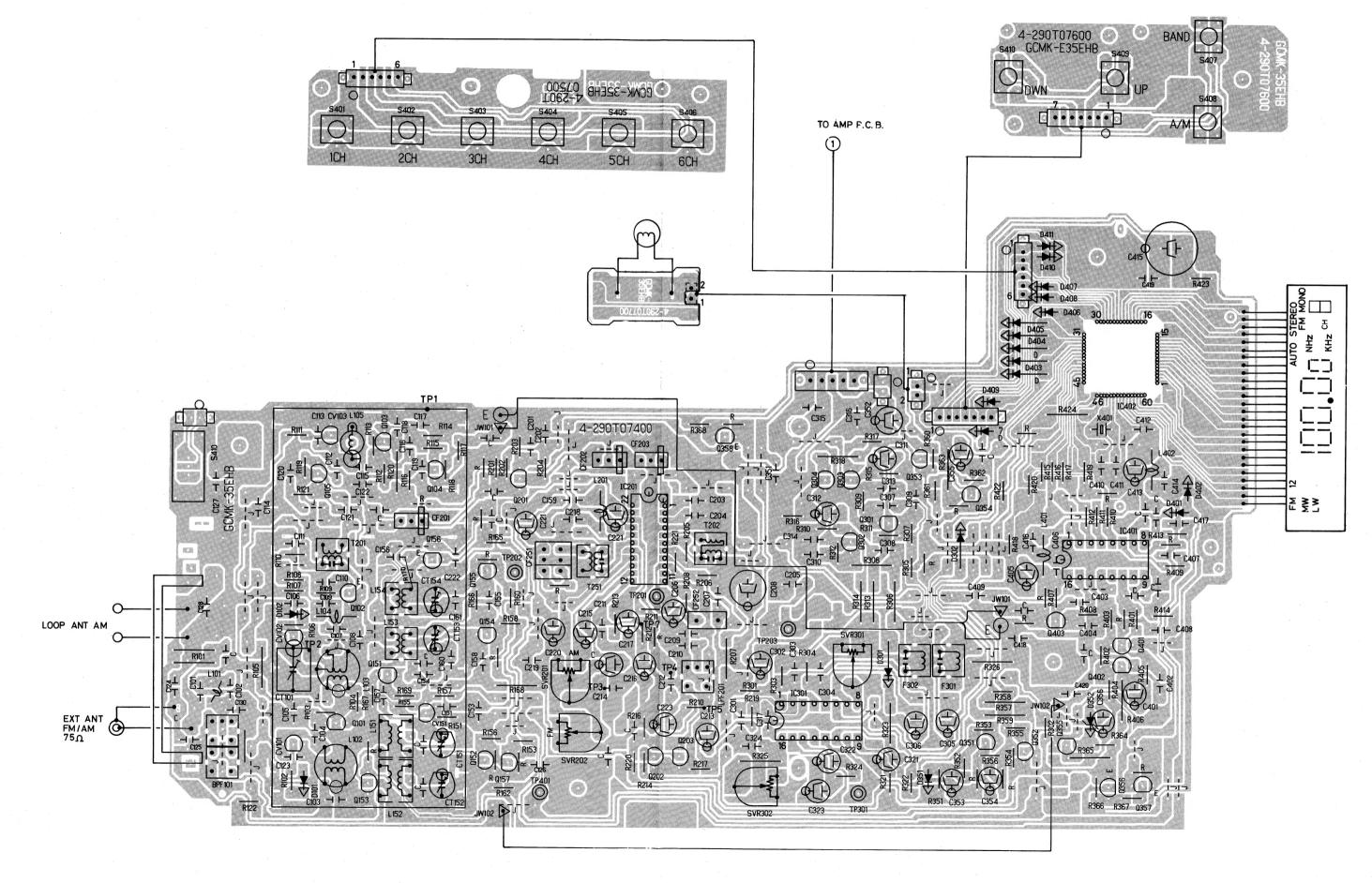


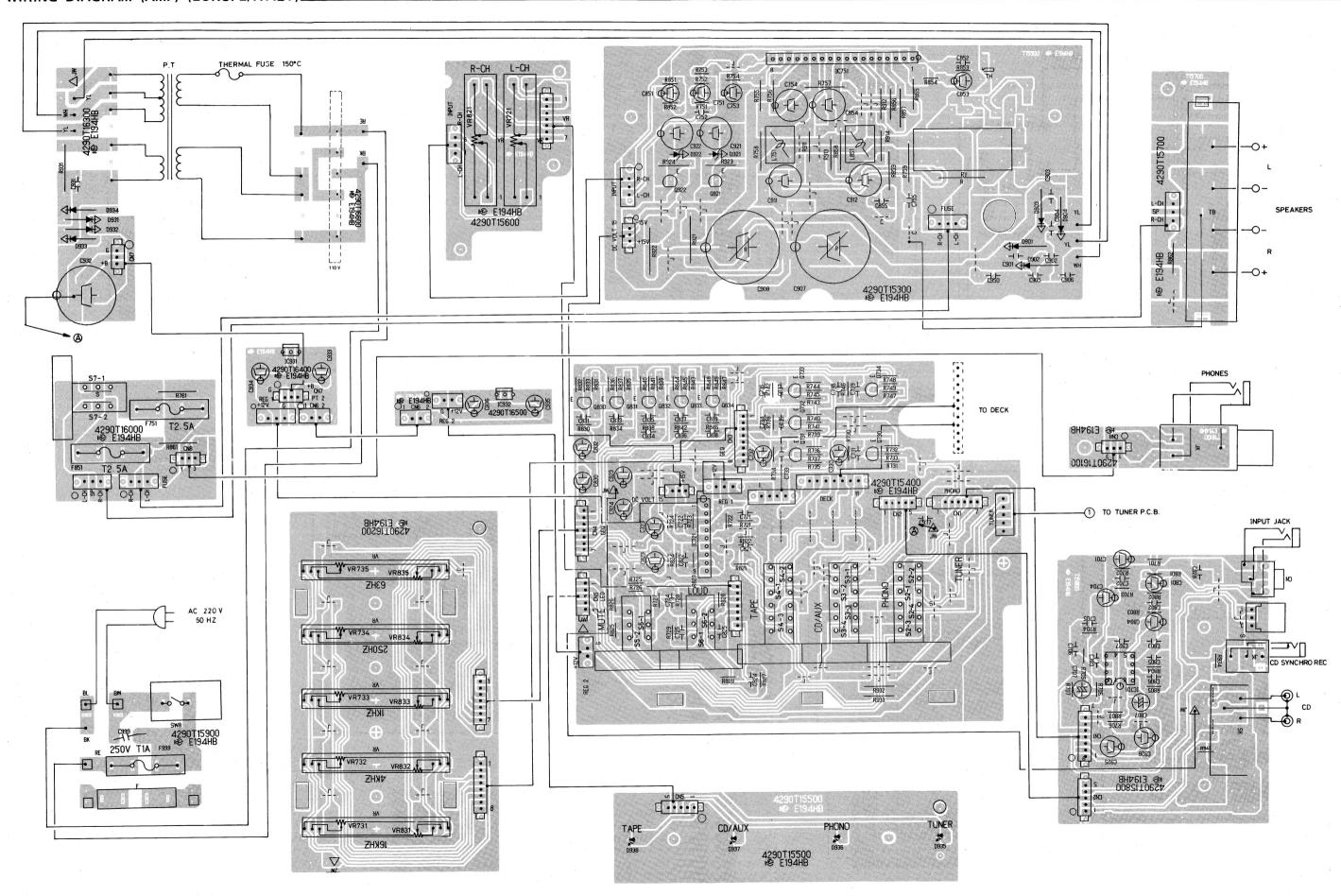


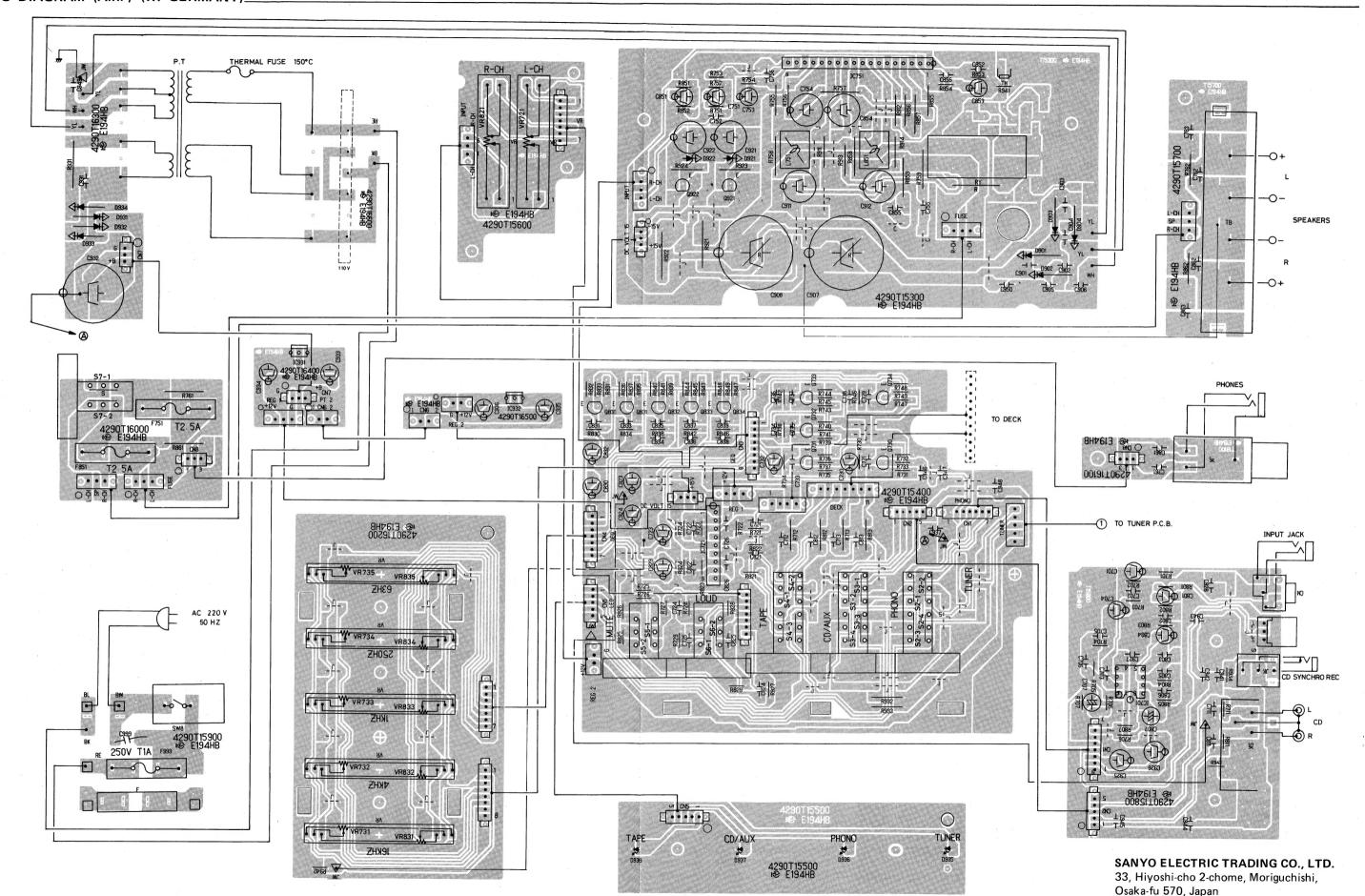
Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply

circuit before returning the product to the customer









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